

Beaumont Fire-Rescue Services

PERFORMANCE BENCHMARKS

402.06A

Sounding and Ventilating a Roof

Discipline: Ventilation

Effective: 1/1/2001

Revised: 7/5/2010

Replaces: Firefighter Benchmark #49

Anne Huff, Fire Chief

I. Objective

The firefighter, given the necessary equipment, shall demonstrate sounding a roof for structural integrity and demonstrate ventilating both pitched and flat roofs.

II. Instructions – Procedures for Achieving the Objective

Standing on the ground near the designated area, you shall climb a ladder to the edge of the roof and use an axe to sound the roof for structural integrity. Using the roof ladder, you shall climb to a designated position on the roof and cut a 4 foot X 4 foot opening at the place indicated. The hole shall be continuously cut until all sides are cut and the cut-out falls to the ground. You will be required to both verbalize key steps and complete mandatory steps while performing this skill. You will begin on my instruction to start. The skill will end when you state to me that you have completed all of the identified steps. Do you understand these instructions?

III. Examiner's Note

The firefighter will not be allowed to review the performance steps at the time of testing.

IV. Preparation & Equipment

- A. Roof (may be simulated)
- B. Pick-head axe
- C. 14 foot roof ladder
- D. 24 foot extension ladder
- E. Extra 4 foot x 8 foot sheets of plywood
- F. Ventilation Saw: Chain Saw, K-12 Saw

Note: The firefighter shall accomplish the skills wearing "FULL PROTECTIVE CLOTHING FOR STRUCTURAL FIREFIGHTER" as required by the Texas Commission on Fire Protection to include helmet, gloves, coat, trousers, boots, hood, and SCBA.

V. Reference Sources

- A. TCFP, Performance Standards, Section 110-2.03h
- B. NFPA, 1001 3-3.11, (a), (b)
- C. IFSTA, Essentials of Fire Fighting, 4th Edition, pages 359, 372

402.06A - Sounding and Ventilating a Roof

Discipline: Ventilation

Name:	Officer #:
Evaluator:	Officer #:
Date:	Location:

If the firefighter:

(No partial points given)

PITCHED ROOF:

- a) Organizes and collects equipment (*Starts equipment on the ground, shuts off power ventilation equipment before hoisting or carrying to the roof.*) 1.0 _____
- b) Accesses the roof safely (proper ladder techniques) 1.0 _____
- c) **Sounds the roof and states that roof should spring back**..... **P/F** _____
- d) Moves roof ladder to the roof and uses it to distribute weight 1.0 _____
- e) Moves tools to the roof safely, utilizing teamwork 1.0 _____
- f) Selects most suitable location to ventilate based on fire location, highest point, exposures, and safety 1.0 _____
- g) Works from safety of roof ladder..... 1.0 _____
- h) Locates roof joists and rafters by sounding with tool 1.0 _____
- i) Marks off the opening (scratches, etc.) 1.0 _____
- j) Removes built up material..... 1.0 _____
- k) *Verbally states proper sequence of cuts* 1.0 _____
- l) Demonstrates both a horizontal and vertical cut 1.0 _____
- m) Makes sure that the structural members are not cut 1.0 _____
- n) Pushes ceiling through using pike pole or other adequate tool 1.0 _____

FLAT ROOF:

- a) Organizes and collects equipment (*Starts equipment on the ground, shuts off power ventilation equipment before hoisting or carrying to the roof.*) 1.0 _____
- b) Accesses the roof safely (proper ladder techniques) 1.0 _____
- c) **Sounds the roof and states that roof should spring back**..... **P/F** _____
- d) Moves roof ladder to the roof and uses it to distribute weight 1.0 _____
- e) Moves tools to the roof safely, utilizing teamwork 1.0 _____
- f) Selects most suitable location to ventilate based on fire location, exposures, and safety 1.0 _____
- g) Works from safety of roof ladder..... 1.0 _____
- h) Locates roof joists and rafters by sounding with tool 1.0 _____

(Continued on next page)

- i) Marks off the opening (scratches, etc.) 1.0 _____
- j) Removes built up material..... 1.0 _____
- k) *Verbally states proper sequence of cuts* 1.0 _____
- l) Demonstrates both a horizontal and vertical cut 1.0 _____
- m) Makes sure that the structural members are not cut 1.0 _____
- n) Pushes ceiling through using pike pole or other adequate tool 1.0 _____

Points Possible	Passing Score	Attempt	Performance Rating (Points)	PASS	FAIL
26	19	First			
		Second			
		Third			

- **Bold letters denote mandatory passage of this step**

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